

Photodiode Arrays

Specifications

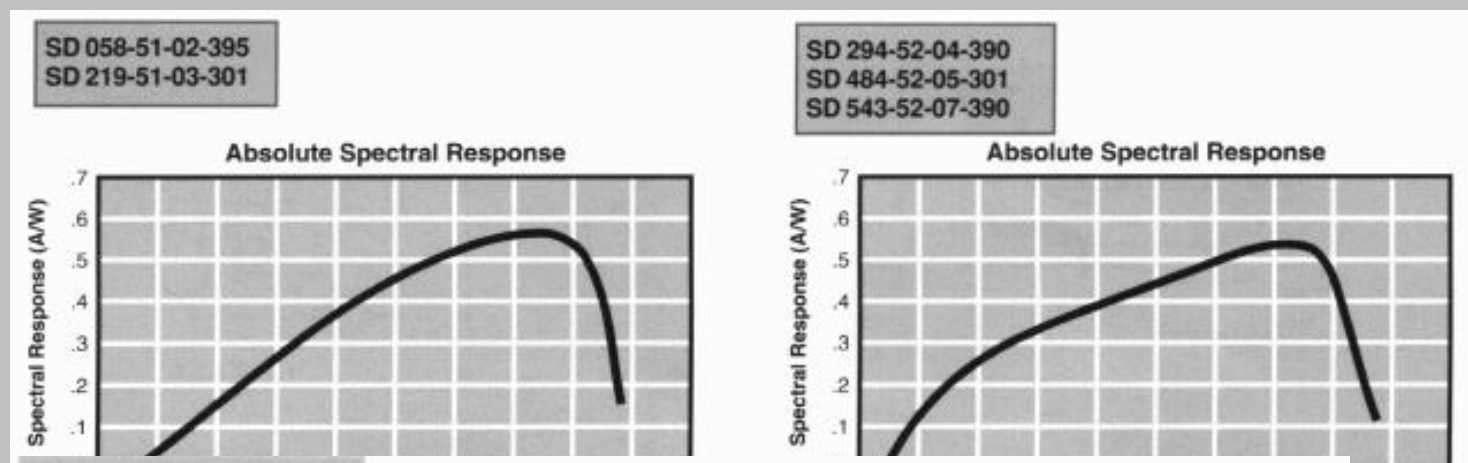
Part Number	Number of Elements	Element Dimensions	Pitch	Responsivity	Shunt ¹ Resistance	Dark Current ¹ @ 10V	Capacitance @ 0V	Uniformity ²	NEP ³
		(mm)	(mm)	(min) (A/W)	(min) (M-Ohm)	(max) (nA)	(max) (pF)	(typ) (%)	(typ) (W/√ Hz)
SD 058-51-02-395	4	0.635 x 0.648	0.673	0.5 @ 900nm	500	0.8	10	± 5	1.4x10 ⁻¹⁴
SD 219-51-03-301	12	0.965 x 2.01	1.01	0.35 @ 633nm	200	2.7	40	± 5	2.0x10 ⁻¹⁴
SD 294-52-04-390	16	1.00 x 1.78	1.57	0.28 @ 540nm	250	0.5	200	± 5	3.2x10 ⁻¹⁴
SD 484-52-05-301	32	0.508 x 5.89	0.635	0.10 @ 365nm 0.22 @ 500nm 0.33 @ 700nm	50	N/A	500	± 5	5.2x10 ⁻¹⁴
SD 543-52-07-390	76	0.280 x 6.35	0.310	0.30 @ 500nm 0.50 @ 900nm	250	0.8	200	± 7.5	1.0x10 ⁻¹⁴

All specifications are per element.

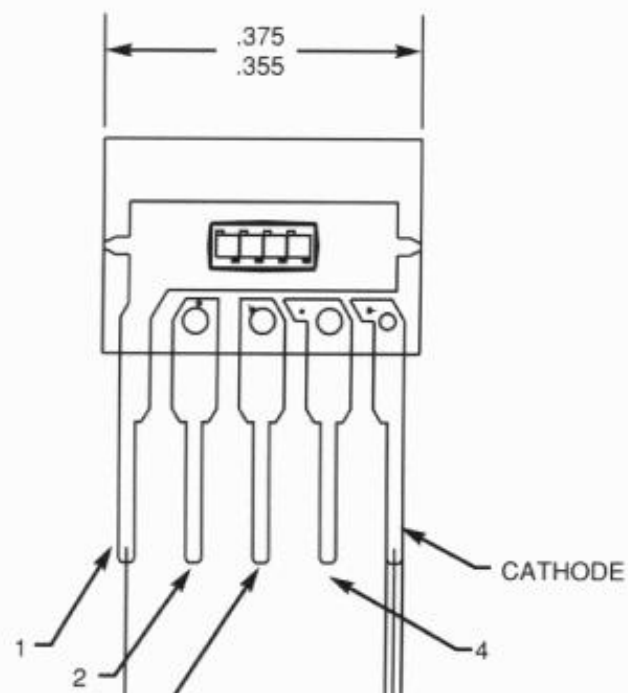
1.Dark Current and Shunt Resistance vary with temperature as follows: for $T > 23^{\circ}\text{C}$, $I_D = 1.09 \Delta T I_{D23}$, $R_{SH} = 0.9 \Delta T R_{SH23}$ and for $T < 23^{\circ}\text{C}$, $I_D = I_{D23} / 1.09 \Delta T$, $R_{SH} = R_{SH23} / 0.9 \Delta T$, where ΔT is the temperature difference from 23°C , and I_{D23} and R_{SH23} are the dark current and shunt resistance at 23°C .

2.Element to element responsivity uniformity is measured at the longest wavelength specified for responsivity of each part.

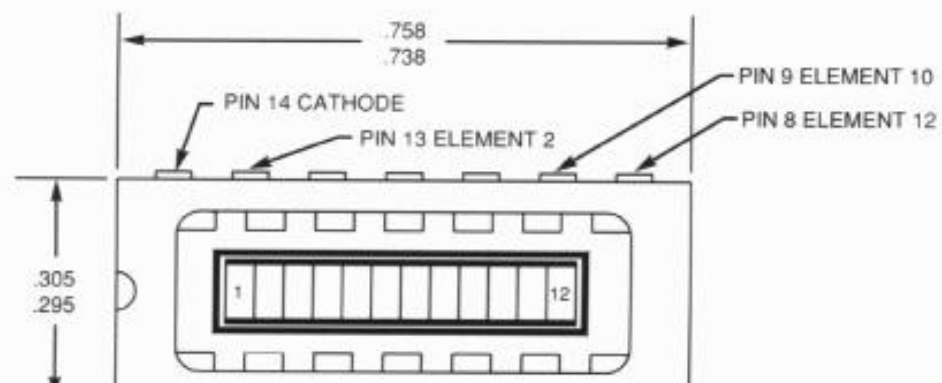
3.Test conditions are $V_B = 10\text{mV}$ and highest responsivity value listed in the table.



SD 058-51-03-395



SD 219-51-03-301



SD 294-52-04-390

